

HIGH PERFORMANCE BUILDING PROGRAMMING AT KCTCS COLLEGES

Jake Hildebrant – Madisonville Community College



HIGHER EDUCATION BEGINS HERE





KCTCS GREEN+ SUSTAINABILITY INITIATIVE

“Facilitating cultural change to enhance the well-being of people, sustainability includes improving efficiencies and effectiveness in a socially equitable manner”



HIGHER EDUCATION BEGINS HERE



KCTCS PROGRAMMING

Programs that support High Performance Buildings



HIGHER EDUCATION BEGINS HERE



KCTCS PROGRAMMING

Programs that Support High Performance Buildings

- **Associate of Applied Science**
 - Air Conditioning Technology
 - Construction Technology
 - Energy Management
- **Certificates**
 - Alternative Energy
 - Commercial Energy Analysis
 - Energy Efficiency Electrical Controls Technician
 - Energy Efficiency and Analysis
 - Sustainable Energy



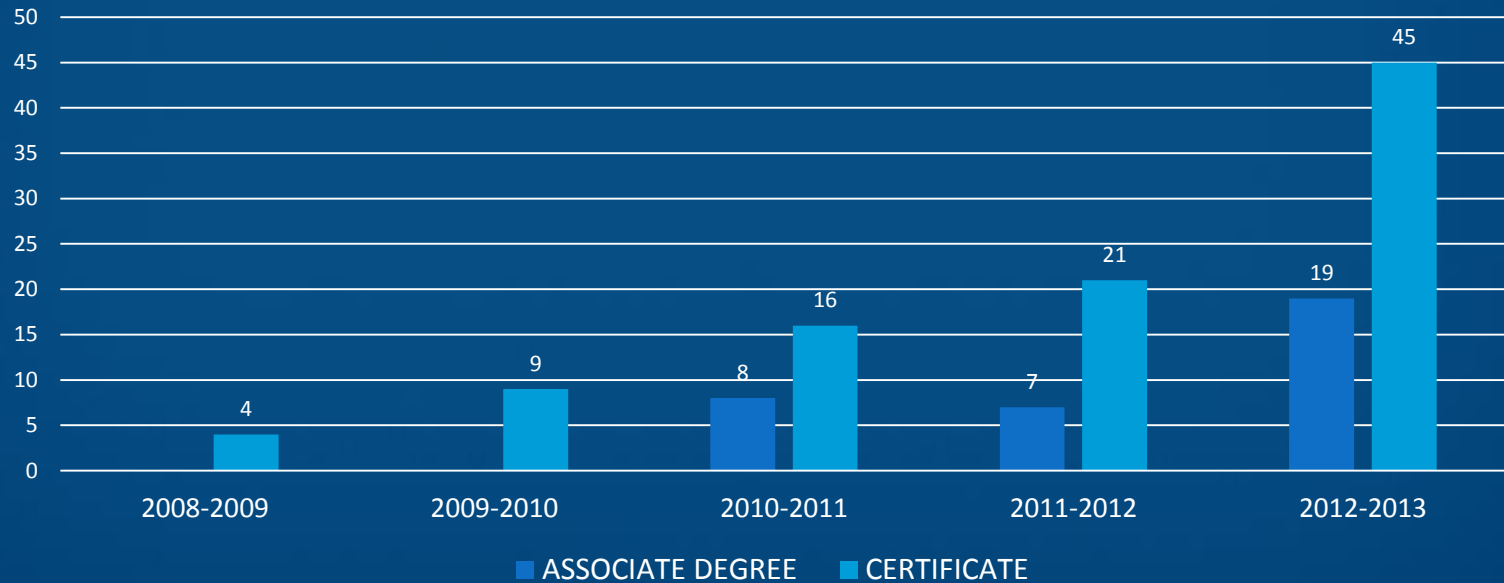
HIGHER EDUCATION BEGINS HERE



KCTCS CREDENTIALS

CIP 150503

KCTCS All Energy-Related Credentials

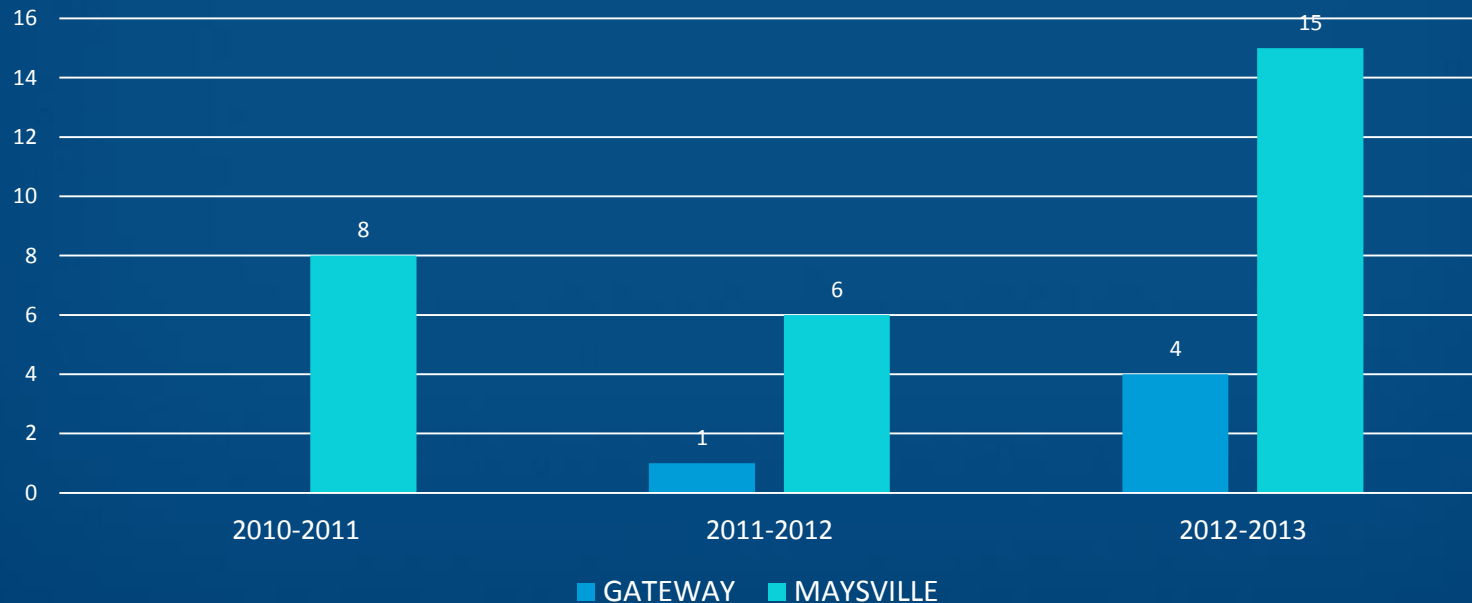


HIGHER EDUCATION BEGINS HERE



KCTCS ENERGY – AAS CREDENTIALS

Energy –Related Programs AAS - CIP 150503

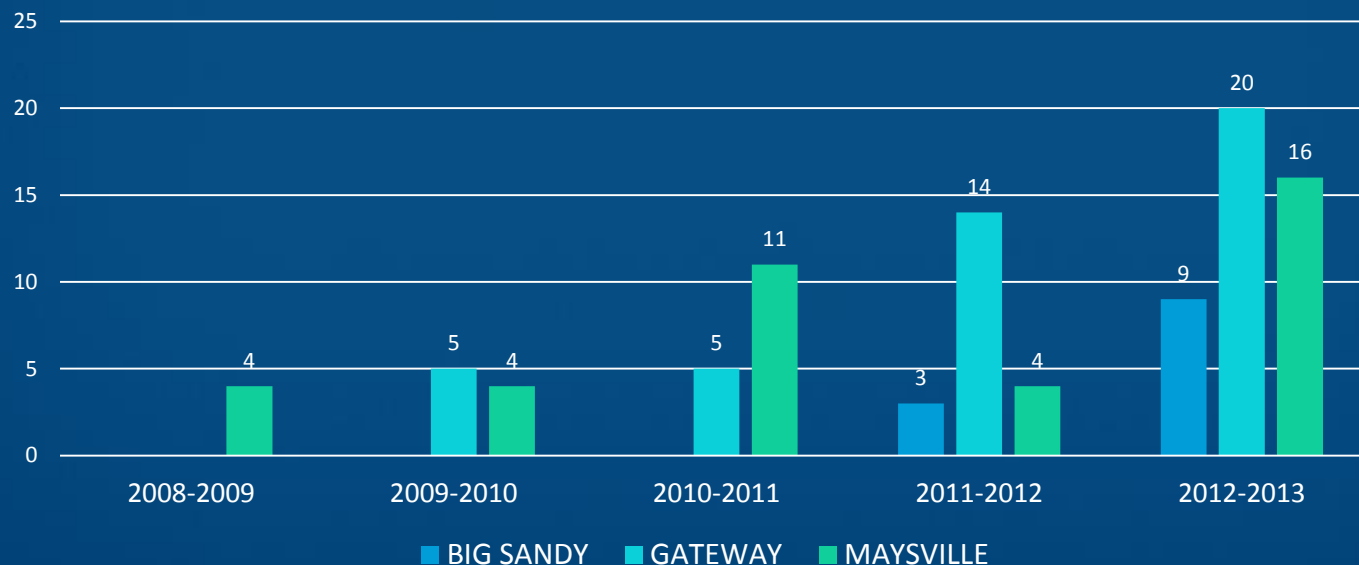


HIGHER EDUCATION BEGINS HERE



KCTCS ENERGY – CERTIFICATE CREDENTIALS

Energy-Related Programs Certificates - CIP 150503



HIGHER EDUCATION BEGINS HERE



WORKFORCE SOLUTION

- Workforce Solution offices across the system have integrated green based education into HVAC and Electrical Continuing Educational Units (CEU)



HIGHER EDUCATION BEGINS HERE



ENERGY MANAGEMENT

AAS – Madisonville Community College



HIGHER EDUCATION BEGINS HERE



ENERGY MANAGEMENT

AAS

- **100% Online**
 - Living Labs
 - Students complete free Energy Analysis for non-profit
- **Textbook Zero**
 - Students purchase iPads to view OERs and complete labs
- **Embedded National Certificates**
 - LEED GA, CEWD EIF, NABCEP Entry Level Solar, and BPI Building Science Fundamentals
- **Bi-term Courses**
 - No pre-requisites

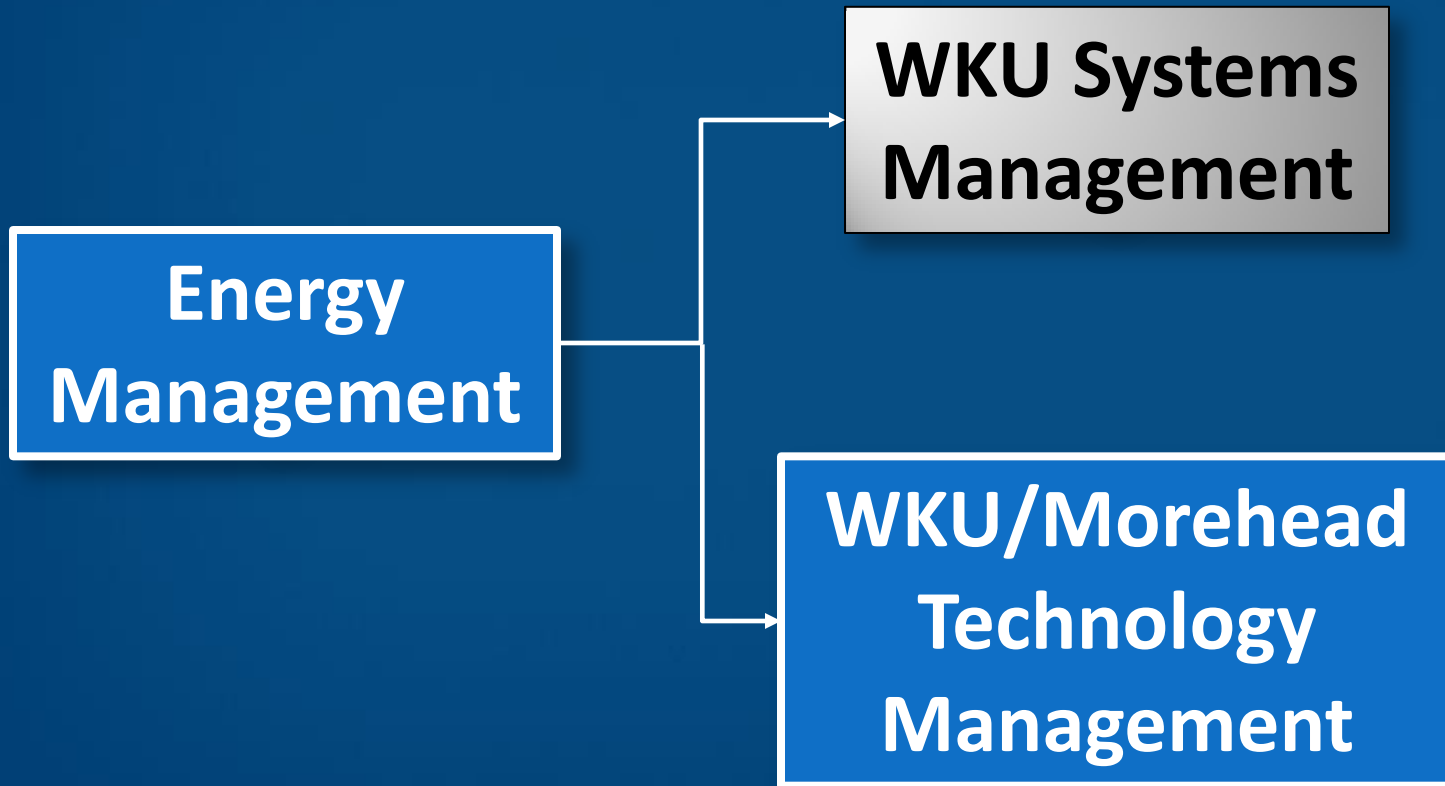


HIGHER EDUCATION BEGINS HERE



ENERGY MANAGEMENT

Transfer Agreements



HIGHER EDUCATION BEGINS HERE



ENERGY MANAGEMENT

High School Pathway

- Kentucky Department of Education Energy Pathway created in 2014
- Students in Hardin County EC3 will be dual enrolled in EM classes
- Students will graduate with 12 Hours of EM courses



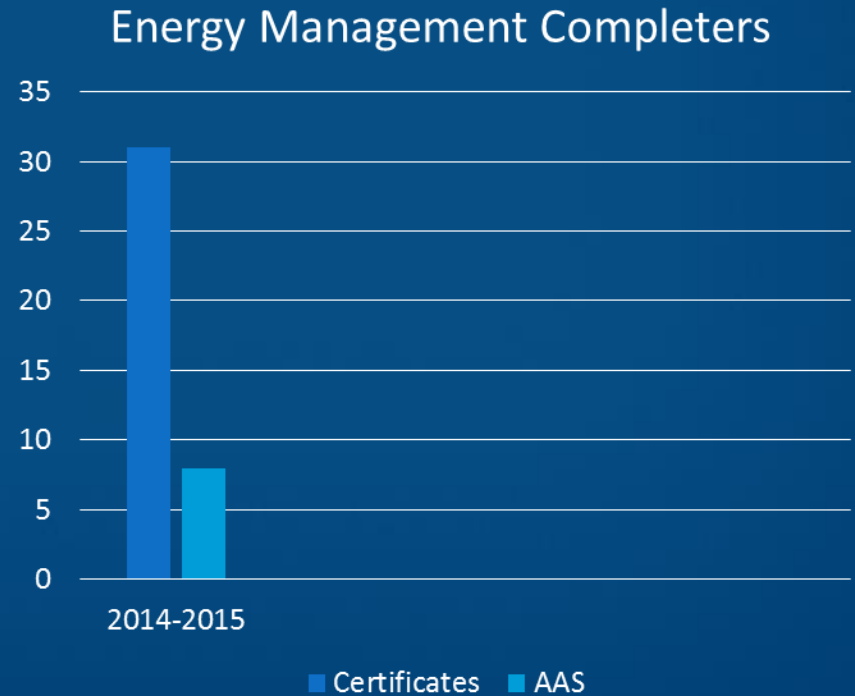
HIGHER EDUCATION BEGINS HERE



ENERGY MANAGEMENT

Certificates/Diplomas

- **31 students completed energy related certificates**
- **8 people graduated with AAS degrees**
Program began in 2013



HIGHER EDUCATION BEGINS HERE



THANK YOU

Jake Hildebrant

Jake.Hildebrant@kctcs.edu

270-883-1160



HIGHER EDUCATION BEGINS HERE

